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TITLE : SURFACE TREATMENT OF ANODICALLY OXIDIZED COATING OF ALUMINUM OR ALUMINUM ALLOY

ABSTRACT : PURPOSE: To impregnate metallic sulfides into the walls and micropores of a porous anodically oxidized coating by subjecting said film to the secondary electrolytic treatment in an aqueous soln. consisting essentially metallic salts of thio acid.

CONSTITUTION: An oxidized film of aluminum or its alloy is subjected to the secondary electrolytic treatment in electrolyte contg. 1≥ kinds of alkali metallic salts or alkaline earth metallic salts of thiomolybdic acid, alkaline earth metallic salts of thiotungstic acid, and ammonium salts, alkali metallic salts and alkaline earth metallic salts of thioantimonic acid, thiostannic acid, thiocupric acid, thioarsenic acid, thioauric acid, thioplatinic acid, and thiovanadic acid. Metallic sulfides are formed by this electrolysis in the electrolyte consisting essentially of the metallic salts of thio acid and these deposit in the micropores of the anodically oxidized coating.

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